



Comments

challenge to capture more of beef's percent of the nation's meat market set off what could well be one of the most important conferences of this decade, the National Beef Grading Conference, held last week at the University of Nebraska, Omaha. In his report on the opening speakers, livestock reporter, Ron K. began with the following:

"Relatively low prices, marketing problems and better feeding of consumer needs were reasons given for recent improvements in the sales and demand of poultry and pork, according to industry experts.

"Because of increased prices of those meats, beef had to fight for its place as the leading source of protein in this country," Iowa State University Extension livestock specialist William J. Jekel said. "Concurring with his comments, Pat J. Jekel, vice president and corporate economist for J. I. Mayer and Co., told the conference that pork industry communications and operation has resulted in significant changes in pork production during the past few decades and that this has been essential in keeping pork from becoming a minor part of the meat diet.

He said that the emergence of vegetable oils after World War II left pork producers with a major problem of reducing the type of over-fat hogs that had been bred for large lard production.

But the pork industry has been successful in changing the type of hog produced through breeding, the development of live and pass grading standards, and packing live weight merit programs that offered economic incentives to lean hogs, he said.

"The meat industry must adapt to demand changes," Luby said, indicating the need for smaller portions and longer shelf life as the average household continues to shrink.

But the biggest challenge to beef is from poultry, according to Stark's conference report. "No longer do we take a back seat to red meat," a poultry industry representative told the conference. "In recent years, poultry's share of the total has increased from 18%, while red meat's share has slipped to 12% from 38%, and by the year 1981, per capita consumption will be more competition to beef."



AN ANXIOUS WAIT—As the National Western Stock Show opening date approached, cattle pens began to fill to capacity at the Denver stockyards last week. This feeder calf awaits his day in the spotlight, like others now in the yards. The feeder steer calf show gets underway during the 75th National Western one week from tomorrow, Jan. 20. (Staff photo)

Fourth winner:

Colorado man receives honored Litton award

Cecil Hellbusch, Aurora, Colo., has been named the 1981 recipient of the Jerry Litton Memorial Award for Achievement in Agriculture.

The award—which has become the top award presented during the National Western Stock Show—will be presented at a banquet honoring the winner Jan. 20 in the historic National Western Club "on the hill" at the Denver show.

Hearings on DES nearly done: FDA

The U.S. Food and Drug Administration's hearings on alleged misuse of diethylstilbestrol in cattle are nearly finished, an FDA spokesman said.

The hearings were held so that firms accused of using the drug after the Oct. 31, 1979, ban could give reasons why the FDA should not prosecute them, according to CNS.

In the past four months, the FDA notified more than 50 firms of intentions to prosecute them for alleged DES misuse. The notification then gave the firms an opportunity, by verbal or written hearing, to tell the FDA why they should not be prosecuted.

Earlier this year, a FDA investigation found more than 425,000 head of cattle illegally implanted with DES and nearly 1400 head illegally fed the drug. More than 300 feedlots were found to have implanted or fed DES.

The hearings were held at the local FDA field office in each firm's area, the spokesman said. After a hearing, each field office will recommend to the Bureau of Veterinary Medicine in Washington, D.C., whether to continue the case, he said.

Until his retirement in 1974, the fourth Litton Award winner was the director of livestock and agricultural public relations for Safeway Stores Inc. of Oakland, Calif. The first award was made posthumously to Jerry Litton, the Missouri Congressman killed in a plane crash in August, 1970. The second winner was Earl Butz, former secretary of agriculture. Last year's winner was George S. Spencer, then executive vice president of NCA.

Widely recognized as a pioneer and leader in the livestock and agricultural public relations field, Hellbusch was a member of Rho Chapter of Alpha Gamma Rho Fraternity at Colorado State University, then known as Colorado A&M. The banquet honoring the Litton Award winner is sponsored by the ag fraternity and Rocky Mountain chapter of the National Agri-Marketing Assn. (NAMA).

This year's Litton recipient was one of the organizers of the Meat Type (Continued on page 8)

Block confirmation close to last stage

U.S. Agriculture secretary-designate, John Block, delighted supporters and appeased some critics last week in his formal debut on Capitol Hill during confirmation hearings before the U.S. Senate Agriculture Committee, according to CNS.

Block said he intended to convince consumers that "American agriculture has (Continued on page 8)

Carter to renew Soviet grain halt

The Carter administration has decided to renew the U.S. grain embargo against the Soviet Union, although they believe the embargo technically did not expire on its Jan. 7 anniversary date, according to Commodity News Service (CNS).

There is no doubt that current export restrictions against the USSR will be maintained, government sources said.

When Carter halted exports of U.S. commodities to the Soviet Union in retaliation for its invasion of Afghanistan, he invoked different sections of the Export Administration Act to embargo technical and agricultural goods. (Continued on page 8)

WESTERN LIVESTOCK JOURNAL

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News • Trends • Sales • Shows • Markets

January 12, 1981

Central Edition

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Bankers, ranchers, brace for rocky ag finance road of '80s

By MARTHA WILLIAMS

Both bankers and the farmers and ranchers they serve face some major changes and challenges in the 1980s. Western Livestock Journal made an informal survey of bankers across the country and found most of them braced for increased competition, continued inflation, and mercurial interest rates.

Jim Eatherly, president of the First National Bank of Tonkawa, Okla., and a member of the American Bankers Assn. (ABA) ag committee, charges that the major banks have not

committed enough funds for agriculture.

"In Oklahoma agriculture is the number one business, but the big banks' senior management is not making decisions that give agriculture its fair share."

Many small banks can't go higher than a \$250,000 loan, Eatherly continued, and if major banks would buy part of the loans to make up the slack, it would help.

"Inflation has torn farmers to pieces," says Eatherly, "but ag products are one of the major ways to maintain a balance of

payments." Eatherly says that "the debt many farmers and ranchers will have to maintain to generate sufficient income is incredibly high... out of proportion to increased income potential."

"There's a continued rough road ahead for cattle people," predicts Willis G. Candland of the Tri State Bank and Trust in Idaho, who is also on the ABA ag committee. He's in a strong (Continued on page 8)

From the novelty file:

A government program that worked

"You could say this is a government program that worked."

The words are Don Nielson's, information officer for USDA's screwworm laboratory in Mission, Texas. Nielson's comment came with the announcement that the screwworm eradication operation had put itself out of business.

The U.S. and northern Mexico are virtually free of screwworms, reports USDA, making unnecessary the Texas plant, which produced sterile screwworms to break the life cycle of normal screwworms.

Nielson notes that all production of screwworm flies has been halted and existing sterile screwworms have been

moved to Tampico, Mexico, for distribution. Screwworm infestation of cattle remains a serious problem in southern Mexico.

New screwworm strains will continue to be developed for Mexico in Fargo, N.D., in a biologically secure facility. There, notes Nielson, the cold weather each winter will kill any flies that might possibly escape.

Larvae of the screwworm fly feed on living flesh in wounds of warm-blooded animals. Damage estimates caused by the screwworms ranged as high as \$100 million in the Southwest before eradication efforts were begun, according to USDA.

NEWSPAPER (priority handling)

NEWSPAPER (priority handling)

Last year leftover debt may burden '81 profits

The nation's farmers and ranchers during 1980 took a double dose of pain. One was the low price for their products. The other was the high cost of borrowing money. Both factors were expected to be a burden on their profits in 1981.

Meantime, farmers are having to cope with income that is down about 25% from 1979, agricultural economists say. But the outlook for 1981 is much better.

Compared to farm income this year of between \$23 and \$25 billion, USDA analysts are predicting the nation's farmers will realize between \$27 and \$32 billion in 1981.

Reasons cited by the USDA economists are a "substantial drop in supplies of commodities as well as exportations of strong export demand."

The news, however, isn't good for everyone. While farm income generally will be up, the USDA says hog and poultry producers' income will improve "only marginally."

For farm equipment dealers and other dependent on farmers, the outlook for 1981 is also improved, says the USDA. Farmers' gross investment in 1980 was only \$12 billion as they

postponed purchases of capital items because of high interest rates and income. But in 1981, the figure should rise from \$12 billion to nearly \$41 billion.

People usually get what they want when they want it, the USDA says.

While interest rates are expected to remain high in 1981, USDA analysts say

the assessment of the USDA, whose analysts say farmers in drought-stricken areas will enter 1981 "heavily burdened with debt because of the need to obtain extensions and renewals of existing debt."

While interest rates are expected to remain high in 1981, USDA analysts say

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Chicago Merc revises feeder futures contract

A significantly revised feeder cattle futures contract has been listed for trading on the Chicago Mercantile Exchange as of Jan. 2 following approval by the Commodity and Futures Trading Commission.

Designed to keep pace with changes and needs within the feeder cattle industry, the revisions will take effect with a new January, 1982 contract and subsequent delivery months.

Changes in the feeder cattle contract are being made in the grade description, par contract weight

allowable, discounts for grade and weight, maximum horn length and approved par and discount delivery points.

The new feeder cattle trading unit will be 41,000 lbs. of feeder steers instead of 42,000 lbs. The steers will be of medium frame and the lower 1/3 of the large frame size. In addition, the steers will be of number one and the top 1/3 of the number 2 muscle thickness as defined in the official U.S. Standards for Grades of Feeder

Cattle. The existing contract calls for 80% choice and 20% good grades and has now been revised to not more than 13 head of number two muscle thickness. A delivery unit can contain up to 25 head, or ten additional steers, of the top 1/3 of USDA number two muscle thickness at a discount of four dollars per cwt.

The average per head weight has been increased from 550-550 lbs. to 575-700 lbs. The discount for heavy cattle has been increased from 1.5 cents per cwt. over

600 lbs. to three cents per cwt. over 700 lbs. In addition, a delivery unit averaging over 750 lbs. up to 800 lbs. is deliverable at a five cents per cwt. discount.

The acceptable horn length has been increased from three inches to five inches.

Par delivery points in the revised contract are Omaha, Neb.; Oklahoma City, Okla.; and Sioux City, Iowa. Delivery may also be made at Kansas City, Mo. and St. Joseph, Mo. at a 25 cents per cwt. discount.

Meat men submit ideas for Reagan agricultural policies

A position paper submitted to President-elect Reagan by Roy Kopp and Dick McDougall has outlined for the new administration five critical areas for the livestock and red meat industries.

The five areas of concern are: 1) profitability; 2) USDA orientation; 3) excess government; 4) human nutrition and food safety.

Kopp, past president of the National Pork Producers Council and past chairman of the Meat Board's Pork Industry Group, and McDougall, former president of the National Cattlemen's Assn., are serving on a 15-member task force advising Reagan on agricultural issues.

Human nutrition recommendations, based in part on Meat Board input, called for a more cautious government approach to nutritive

issues. "While it is appropriate for the federal government to advise the public on matters of diet and health," the paper states, "dietary recommendations must be based on conclusive scientific evidence. If there is uncertainty about the effectiveness of a dietary program, there must be clear evidence that the proposed intervention will not be harmful or detrimental in other ways."

In addition, the paper calls for a review of the nutrition education programs and school lunch guidelines, and the establishment of a review procedure for dietary recommendations relating to health by an independent scientific body.

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Task Force urges animal research

The task force for animal agriculture research has called for an immediate increase in research on ways to meet future needs for nutrition and safe, affordable meat, milk and eggs, reports CNS.

The task force, composed of more than 200 U.S. scientists, producers and consumers, said investments in research and development have not kept pace with the growing demand for animal products.

"Traditionally, animal producers and scientists have not aggressively

sought support for research," according to Henry Fitzhugh, animal scientist at Winrock International Livestock Center, Morrilton, Ark.

"They (producers and scientists) recognized the obvious need and thought the public would too, but 20 years without a real increase in support for animal agriculture has brought us to the brink of crisis," Fitzhugh said.

According to the group,

every dollar spent on agriculture research has been a consistently good investment, with average returns of 50% on each dollar.

Animal agriculture research priorities should be geared to finding ways to use low-quality roughage for animal feed, using animal wastes for fertilizer and fuel, and protecting animal products from loss of food value resulting from product contamination, animal disease or inadequate packaging.

Research also is needed to determine relationships between diet and health and to promote increased animal productivity

Coming Events

Jan. 14-24—National Western Stock Show, Denver, Colo.
Jan. 21—American Murray Gray National Show at the National Western, Denver, Colo.

CATTLE AUCTIONS
Jan. 12—Sutton Buggypole Cattle Co. Simmental Range Bull Sale, Broken Bow, Neb.
Jan. 13—Harrell Cattle Co. Stockman's Sale, Gonzales, Texas.
Jan. 16—Summit Limousin Sale, Bennet, Colo.
Jan. 17—American Shorthorn Assn. Bull Sale, Denver, Colo.
Jan. 17—Southwest Brahman Bull Sale, San Angelo, Texas.
Jan. 18—American Chianina Assn. National Western Sale, Denver, Colo.
Jan. 18—"Black Power" Limousin and Chianina Sale, Bennet, Colo.
Jan. 18—Red Angus Range Bull Sale, National Western, Denver, Colo.
Jan. 19—"ALL EMULOUS" Angus Sale, Anthony Shadow Tele, Bennet, Colo.
Jan. 19—American Galloway Breeders Assn. 10th Mile High Sale, Denver, Colo.
Jan. 19—Marky Cattle Assn. Sale, National Western Stock Show, Denver, Colo.
Jan. 19—No. American Blonde d'Aquitaine Foundation National Western Sale, Denver, Colo.
Jan. 21—American Angus Assn. National Western Bull Sale, Denver, Colo.
Jan. 21—American International Charolais Assn. Sale of the National Western, Denver, Colo.
Jan. 21-22—North American South Devon Assn. Show & Sale, National Western, Denver, Colo.
Jan. 22—American Murray Gray Assn. National Sale at the National Western, Denver, Colo.
Jan. 22—Gentry's Double Hook Ranch Charolais Special Edition 1 Sale, Bennet, Colo.
Jan. 22—Riverdale Hereford Ranch, Maxwell, Neb.
Jan. 23—American Pinzgauer Assn. Sale, Denver, Colo.
Jan. 23—MPTLA Texas Longhorn Sale at the National Western, Denver, Colo.
Jan. 23-24—Am. Buffalo Assn. Gold Trophy Show & Sale, National Western, Denver, Colo.
Jan. 24—Kettler Hereford Special Private Treaty Sale, Sturgis, S.D.
Jan. 24—Nebraska Spectacular Limousin Sale, Grand Island, Neb.
Jan. 24—Repply Mtn. Santa



BULL AWARD—Joy Weinheimer, Stoneham, Texas, was one of five recipients of the Golden Bull Award during awards banquet of the American Junior Hereford Assn. Convention, Kansas City, Mo. The award consists of a bronze Hereford bull model from the American Hereford Assn. and American Junior Hereford Assn. and a \$100 cash stipend from the American Hereford Auxiliary.

USDA asks for P&S comments

Public comment is being sought on several proposed changes in packers and stockyard program regulations, including a proposed increase in the amount of bonds required of dealers buying and selling livestock, reports CNS.

Other proposed changes include a reduction in the information required for annual reports submitted by livestock dealers and market agencies. Another USDA proposal is to allow custodial accounts for shippers' proceeds to be kept in savings accounts.

The proposed revisions were published in the Federal Register on Dec. 31. Comments can be sent until March 2 to Deputy Administrator, P&S, AMS.

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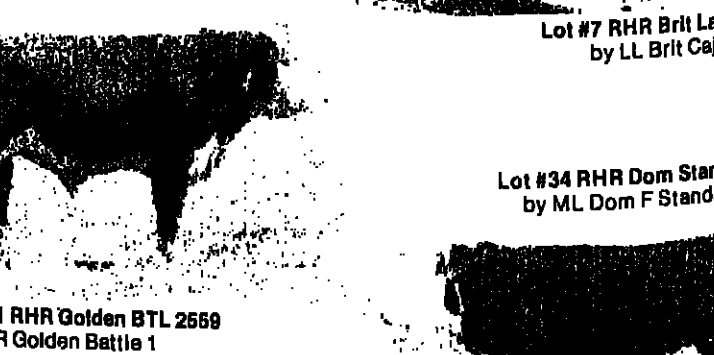
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Big, rugged, coming Two's, pasture raised. Guaranteed Sound!

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JOHN W. WELCH



GEORGE S. SPENCER

Former-NCA staffers begin new commodities operation

George S. Spencer and John W. Welch have announced the formation of a new company, Summit Cattle Enterprises, Inc. The Denver-based firm, a joint venture with Bob Rutenacht of Phoenix, Ariz., will be involved in several aspects of the beef cattle business.

Spencer, who will be president of the company, was executive vice president of the National Cattlemen's Assn. and the former American National Cattlemen's Assn. for 10 years prior to resigning last August.

Welch, also a former NCA staff member, has been in cattle management, risk management and commodity brokerage work for the past three years. He will be vice president of the new firm.

Rutenacht owns and operates a commodity brokerage business, Rutenacht Commodities, and he is also involved in his own cattle operations.

Spencer said that a principal part of Summit operations will be a commodities office, as the Colorado branch of Rutenacht Commodities. The new company also will offer marketing management services for cattle producers and feeders. Services will include buying and selling cattle, forward contracting and hedging. In addition, Summit will provide order-buying services through one of Rutenacht's companies, Cactus Cattle Co.

Another activity will be the company's own pasturing and feeding of cattle. Summit Cattle services and operations will be national in scope.

The commodity brokerage services, Welch said, will involve all types of futures contracts, including grain, livestock and financial instruments.

Before joining the former AMCA in 1970, Spencer was in public relations and packing plant management positions with Swift & Co. Earlier he was a vocational agriculture teacher in his native Utah. When he resigned from NCA, Spencer indicated that he wanted to devote more time to his

Beef's number one
What was the number one seller in American supermarkets in 1979? Fresh beef, according to the industry magazine Supermarket business. Consumers spent \$16.2 billion on fresh beef in U.S. grocery stores, compared to \$12.9 billion for the number one category, "provisions" — bacon, ham, sausages and cold cuts.

family and remain in Denver, while being involved in the livestock business.

Welch, an agricultural economics graduate of Texas A&M University, was with Cattle-Box, the marketing analysis service associated with NCA, and with NCA for several years. Later he was with Triple G Feedlot, Brighton, Colo., in charge of risk management. Most recently he has been in cattle management and commodity brokerage, as a vice president of Taurus Corp., Boulder, Colo.



ELECTED—Myron Woolver, a registered Angus breeder from Unionville, Mo., was elected president of the American Angus Assn., at the 97th annual meeting of delegates, in Louisville, Ky. Woolver, replaces Dave Pingrey, retiring president from Benton, Miss.

Report reactions cause market hog price drop

December's hog and pig report showed an inventory decrease of only four to six percent, not the ten percent predicted by many market analysts.

As a result of the emotional reaction to the report, market prices of hogs have dropped. A factor affecting the current market price of hogs is the number of heavy hogs being sold. Market weights are averaging 247-249 lbs. Only one other time in the last 30 years have weights averaged over 247 lbs.

The National Pork Producers Council said that pork producers have not marketed hogs at optimum weights in anticipation of the further increases in

market prices for live hogs expected in the new year.

Although pork producers are disappointed that the reduction in numbers is not greater, there is a positive side. December's report is the first to show a substantial reduction in five years.

According to Orville Sweet, executive vice president of NPPC, those producers being hurt the worst are the ones who let their hogs get too heavy. The same result applies to producers who let their hogs get too heavy in the future.

"After all," said Sweet, "an average 20-lb. lighter hog going to market will

have a greater effect on price than the predicted ten percent reduction in numbers." The increased price of grain should also encourage marketing at lighter weights.

However, we are seeing a much more disciplined industry than we saw a few years ago, said Sweet. Pork producers are more professional in their reactions to market aberrations today.

Cost of producing pork today is from \$47 to \$60 per hundredweight, depending

on the efficiency of the operation and cost of facilities.

Bill Butler, president of NPPC and a producer from Brookings, S.D., said, "Pork producers should get current in their marketing as soon as possible and maintain lighter weights, preferably 220 lbs. This would not only reduce the surplus but provide a better product for the consumer while reducing the cost of production to the producer."



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eliminate misidentification of equine products," Houston said.

Houston said under this proposal official import inspection stations would furnish their own marking devices rather than have the brands furnished by FSQS.

The proposal was published in the Dec. 12 Federal Register, available at many public libraries. Comments should be sent by Feb. 10 to: regulations coordination division, attention: Annie Johnson, FSQS, USDA, Washington, 20250.

Electricity is still the highest priced form of energy for farmers, reports the USDA. Natural gas is the cheapest.

Changes coming:

Feeder Assn. speaker predicts more stimulation, leaner beef

The beef industry is changing! So said Thomas Sparks, manager of Held Beef Industries, as he spoke to the North Dakota Feeders Assn. recently in Fargo.

For openers, electrical stimulation in slaughter animals is a coming trend. An electric current is applied to the carcass after slaughter and bleeding, while the tissue is still sensitive to electricity.

This results in more tender beef as muscle constriction occurs more rapidly.

"Necessary equipment is readily available. It is a simple, inexpensive step easily added to our operation," Sparks said.

Sparks believes by using electrical stimulation, that overconstriction of the muscle is eliminated and thus extra fat cover will not be necessary. He believes that lean, tender beef is the product of the future.

Lighter carcasses are another good bet. Processors prefer a 500 lb. carcass because it is easier to handle than an 800 lb. carcass.

Lean beef is also more economical for a family of four, as the purchaser will almost always buy four small steaks instead of four large steaks.

Smaller weight carcasses are ideal for small stores, where you can fabricate the carcasses into any size of steaks and roasts according to how the consumer wants them cut.

But, producers need

incentives, to produce the type of animal that consumers desire. Otherwise the change to producing lean beef will take longer.

The introduction of many exotic breeds means that more 800 lb. carcasses will be marketed. The exotic breeds don't have high quality carcasses until they reach higher weights.

The exotic breeds have leaner carcasses at higher weights as they lay down more muscle tissue and are not overly fat.

The small 500 lb. carcasses are ideal for cattle that finish out light. So where you finish cattle out at depends on the carcass size.

It is more economical to process these exotic breeds' 800 lb. carcasses than to process 500 lb. carcasses as much more trimage can go through the plant per day of 800 lb. carcasses.

Sparks pointed out that the merchandising of beef has been all but nonexistent. Beef is and has been the preferred meat in our culture. This is such a basic fact that we have depended on our product to sell itself.

"The consumer wants and prefers beef, but at relatively competitive prices. Gradually our market share is being lost to other competitors. We must look to improved, innovative and sophisticated methods of merchandising."

There will be more frozen meat marketed too. A much better quality product can be produced more cheaply, by portion cutting the

carcass at a central distribution point, freezing the cuts and then shipping them out from that point.

Freezing meat will eliminate bacterial problems and many transportation problems associated with fresh meat. Only freezer space will be needed, eliminating refrigeration and cooling space.

Shuttle buses to ease parking ills

Round-trip shuttle bus service from Mile High Stadium to the Denver Coliseum will be initiated for National Western Stock Show visitors, according to Charles Sylvester, show general manager.

Sylvester said Gray Line of Denver will provide "continuous" shuttle transportation from Lots #6 and #8 on the south and east sides of Mile High Stadium and from the east entrance of the Coliseum.

The service will be available from 11 a.m. to midnight during the 1981 show dates.

Parking at Mile High Stadium will be free.

Gray Line of Denver will charge adults two dollars and students (13 to 18 years old) one dollar for round-trip transportation. Children 12 years old and under will ride free.

Sylvester said the shuttle bus service is being offered because of insufficient close-in parking space in the area of the Coliseum.

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- 200 Really nice BWF springer heifers bred to quality Brangus Bulls, begin calving in Feb.
- 225 Springer heifers. 100 BWF, 50 Herefords, 75 RWF. Begin calving in February to Brangus bulls. All calfhood vaccinated.
- 75 Head of springer heifers. Includes 25 Hereford and 50 Brangus. Begin Calving March 1, bred to Brangus bulls.
- 70 Fancy BWF heifers bred to Longhorn bulls, begin calving February 15. Calfhood vaccinated.
- 28 Nice Hereford heifers, early calvers.
- 70 Calfhood vaccinated crossbred heifers, begin calving March 1, bred to Brangus bulls.
- 180 Heifers, including 110 Brangus, 50 big eared, BWF, weigh 625-725 lbs. Been with Brangus bulls 60 days. Calfhood vaccinated.
- 150 Open heifers, including 100 BWF, 50 Brangus and crossbred, ready to put the bulls with.
- 50 Second-calf Herefords and BWF springer cows.
- 30 Brangus springer cows.
- 40 Black Angus springer cows.
- 70 Young, mostly Hereford and BWF cow/calf pairs.
- 50 Young, Mixed springer cows.
- 150 Hereford and BWF cows, 3-7 years old, 20 calves on the ground.
- 216 Crossbred cows, 4-8 years old, 60-70 calves on the ground.
- 150 Mostly crossbred cows, start calving in February.
- 130 Head of Hereford cows, running age, start calving in 30 days.
- 5 Registered Brangus bulls, 18 months old.
- 5 Brangus bulls, 2 years old.
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Schedule of Events:

Friday, January 30
All cattle arrive

Saturday, January 31
Open Steer Show
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Sunday, February 1
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4:00 p.m. Fitting and
Showmanship Calcula

Monday, February 2

7:00 p.m. Pre-Sale party and dance
featuring Red Steagall

Tuesday, February 3

8:00 a.m. World Limousin Futurity Show,
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6:00 p.m. Pre-Sale Party
7:00 p.m. World Limousin Futurity
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JAN. 24, 1981**



SCHOLARSHIP WINNERS—Six national winners in the 4-H agricultural awards program receive congratulations from Ben H. Warren, president of International Livestock's Agricultural Equipment Group, and vice chairman of the board of trustees of the National 4-H Council, at the 59th 4-H Congress in Chicago. Standing with Warren in the front row are: Michael H. Phillips (left), 19, Groutville, Miss.; Scott G. Bisher, 18, Carlock, Ill.; David L. Strawn, 18, Chumman, Kan.; and Michael A. Abatti, 18, Holtville, Calif. In the back row are: Jefferson P. Welch (left), 18, Fayetteville, Tenn.; and Todd M. Gardner, 19, Eckley, Colo. Each of the national winners received a \$1000 scholarship from IH and its annual 4-H luncheon. For the past 26 years, IH has sponsored the agricultural awards program. This year, enrollment in the program topped one-million 4-H youths.

A sticky subject:

Meat substitutes carry high cost; play havoc with "calorie budget"

Peanut butter may be cheaper, but from a health standpoint eating meat substitutes can be expensive, according to Barbara Hicks, director of education for the National Live Stock and Meat Board.

Speaking recently to about 700 persons at the 62nd annual convention of the Indiana Farm Bureau in Indianapolis, Hicks said while other sources of nutrients can be cheap dollar-wise, they can be very expensive when it comes to calories.

"To maintain the proper body weight for good health, people should watch their 'calorie budget' just as closely as their food dollar budget," Hicks said. "In these terms, meat is an excellent buy because it provides many essential nutrients for the calories it contains. And with obesity our number-one dietary problem, this should be important to most Americans."

Hicks said red meats make a very positive contribution to the nutrient needs of humans. Foods from the meat group provide a good share of the daily requirements of protein, several B-vitamins and the minerals iron and zinc. Each of these nutrients serves a specific, vital function in the body.

Some people are predicting, Hicks said, that unless the meat industry can reassure the American public that red meat is a good value, eventually the public may tend to use red meat as "just a garnish or condiment at meals, rather than the basis of meals."

Population on farm continues to decline
The U.S. farm population is now estimated to be slightly less than three percent of the total nation's population, according to a report from the U.S. Department of Agriculture and Commerce.

At 6.2 million, the farm population is calculated to be down about four percent

While price was one consideration of people who were reducing their meat consumption, Hicks said, another factor was the diet/health issue.

"The authors of the 'Dietary Goals' and other similar reports, who recommend that Americans drastically reduce animal food consumption, base that recommendation on the promise that the nation's health is deteriorating," Hicks said. "That simply is not true."

Hicks pointed out that Americans are living longer, there's less infant and maternal death and we're closer to our genetic potential in stature than ever before in history. In addition, the rate of heart disease deaths has been

dropping—even during the years the consumption of red meats was increasing.

"All the concern over animal foods and heart disease is still a matter of hypothesis, and yet the American people have been led to believe that animal foods cause heart disease," Hicks said. She said the cause or causes of heart disease are unknown, and there is no proof that lowering one's dietary cholesterol intake will lower one's chances of dying from heart disease.

"There's no sound reason not to eat a moderate amount (of red meat)," Hicks said. "It has been a part of our diet for centuries and should continue to be a key part of our diet for many more years to come."



MANAGER—Russell J. Berra, director of marketing for American Breeders Service, has announced the appointment of Steven J. Yaun as manager of training. In his position with ABS, Yaun will be responsible for all training in sales and A.I. herd management activities.



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Stomach research innovation:

"Pop" go the stomach tops

George the steer may lose his job.

And that goes for other research animals across the country fitted, like him, with "pop-top" stomachs.

Mark Buettner, an agronomist at Oregon State University's Klamath Agricultural Experiment Station, believes he has found a way to obtain bovine digestive fluid—needed for laboratory tests of the digestibility of hay and other feeds—without using a plastic device called a fistula. For years, such devices have been surgically implanted in the sides of cattle to give animal scientists ready access to stomach fluids.

"I've been looking for a way to get away from the fistula," explained Buettner, "because it causes health maintenance problems for the people taking care of cattle and it's expensive. It runs about \$600 these days to have a veterinarian put a fistula in. Then you have to clean around the mouth of the fistula once a month to prevent infection."

Besides, he added, fistulated cattle, which normally are kept for 10 to 15 years,

are difficult to sell when a researcher no longer needs their services.

The OSU scientist developed his alternative technique for obtaining digestive fluid in numerous experiments with George, a fistulated steer that has been the Klamath Station's longtime source of digestive fluid, and experiments with a nonfistulated steer. Buettner, or an assistant, simply ran a small tube down the throat of the nonfistulated steer and pumped out the fluid they needed. George's fluid was used for comparisons.

In the past, said Buettner, researchers have "just reached through the fistula,

grabbed a handful of whatever's in there and squeezed the juice out."

The stomach fluid is used in laboratory experiments which simulate the digestive process and allow researchers to rate the digestibility of various forage products.

The OSU scientist is convinced digestive fluid obtained through a cow's throat works as well in lab tests as fluid obtained through a fistula.

The main trouble with going through channels is that we so often get stuck in a rut.

Welcome Cattle Raisers

To The
1981 Houston Livestock Show and Rodeo
Livestock Show: Feb. 25-Mar. 6; Rodeo: Feb. 27-Mar. 8

ALL BREED REGISTERED RANGE BULL and COMMERCIAL FEMALE SALE

Sunday, March 1, 1:00 P.M.

1981 OPEN CATTLE SHOW SCHEDULE

ANGUS	Wed. Feb. 25, 9:00 A.M.
BRAHMAN, National Show	Wed. Feb. 25, 9:00 A.M.
BRAHMAN, National Show	Thurs. Feb. 26, 9:00 A.M.
BRANGUS, International Show	Thurs. Feb. 26, 12:00 NOON
CHAROLAIS, Roll of Excellence Show	Wed. Feb. 25, 5:00 P.M.
HEREFORD	Fri. Feb. 27, 9:00 A.M.
LIMOUSIN	Sat. Feb. 28, 9:00 A.M.
MAINE ANJOU, Champion of Champions	National Show
POLLED HEREFORD	Sat. Feb. 28, 2:00 P.M.
RED POLL	Thurs. Feb. 26, 5:30 P.M.
SANTA GERTRUDIS	Fri. Feb. 27, 1:30 P.M.
SHORTHORN	Wed. Feb. 25, 2:00 P.M.
SIMMENTAL, Champion of Champions Show	Sat. Feb. 28, 1:30 P.M.
ZEBU	Thurs. Feb. 26, 5:30 P.M.

For information, Premium List and Rodeo tickets, write
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American Cattle Conference

Senator Malcolm Wallop (R-Wyo.) will be a featured speaker at the fourth annual American Cattle Conference sponsored by the Colorado Cattle Feeders Assn. (CCFA) on Jan. 17.

Wallop will address the luncheon session during the one-day seminar on the futures market. Wallop is a member of Senate Committee on Finance; Energy and Natural Resources; and the Select Committee on Intelligence. He is the incoming chairman of the Select Committee on Ethics.

"Senator Wallop is deeply involved in areas of paramount concern to the cattle industry," said Ben Houston, conference chairman. "His work in the areas of tax law reform, water, energy and grazing assure a presentation detailing issues of direct impact and growing import to our industry."

The American Cattle Conference, a one-day seminar for members of all facets of the cattle industry will be held Sat., Jan. 17, at the Denver Hilton Downtown. Registration at the door is \$30, and begins at 8:30 a.m. with the meeting beginning at 9:15 a.m.

For further information, contact CCFA at 820-2333.



CORONATION—Kathy Martin, Miss Rodeo America 1981, in congratulatory by John Milano, Resistol Hats president, following her coronation in Oklahoma City. Resistol Hats provides Miss Rodeo America a complete hat wardrobe for her year in office. Kathy captured the title after six days of competition in horsemanship, personality and appearance.

The American Gelbvieh Assn. invites you to



Denver, Colorado
January 19-22, 1981

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Pens of 3 Bulls Show
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Thursday, January 22
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8:00 a.m., Stadium Arena
Gelbvieh Grand National IX Sale
7:00 p.m., Beef Palace Auction Arena

For more information, contact:



AMERICAN GELBIEH ASSOCIATION
311 Livestock Exchange Bldg.
Denver, Colorado 80216

303/623-4481

Pro Rodeo Cowboys Assn.

Stouten's Denver Inn will again be the hub of National Western Stock Show and Rodeo activity this month, beginning with the 34th annual Professional Rodeo Cowboys Assn. Jan. 12-15.

About 700 PRCA members and others who are involved in rodeo will gather at the hotel to plan the 1981 season and work on rodeo rules. The convention will be held just prior to the 1981 National Western Stock Show and Rodeo, Jan. 15-25.

Song writer Ed Bruce, best known for songs such as "Mama, Don't Let Your Babies Grow Up to Be Cowboys," "See the Big Man Cry," and "Texas, When I Die," will be featured during the convention's awards banquet, hosted by celebrity and rodeo competitor Bob Eckhardt.

All-Around World Champion Cowboy Paul Tierney and winners of the six divisions of rodeo competition will be honored at the banquet in Stouten's Centennial Square. Winners will receive their trophies and saddles.

Malcolm Baldrige, the U.S. Secretary of Commerce designate, and a long-time rodeo competitor will be a featured guest Thursday night. He will also participate in the National Western Rodeo in the Team Roping event.

The PRCA board of directors and rodeo committees are scheduled to meet throughout the conference. Educational seminars and business meetings will be held. Also, PRCA directors will take office during the convention.

Nebraska Hereford Assn.

Members of the Nebraska Hereford Assn. met in North Platte recently for their annual meeting and election of officers. Serving as president for the coming year will be Orville Beyea, Springfield. He succeeds Edwin Manhas, Lincoln, as president of the some 200 members of the NHA. Beyea had served as vice president during the past year.

Charles Schroeder, Palisade, was elected to the post of vice president, and Ron and Kay Morgan, Burwell, continue as secretary-treasurer.

Newly elected to serve on the board of directors were: Frank Munin, Waverly; Rich Johnson, Tilson; Dan Leo, Danaburg; Roger Chonoweth, Kilgore; Lawrence Turner, Sparks; and Tom Sellman, Chadron.

Brush and Weed Control Conference

The eighth annual Range Brush and Weed Control Conference will be held Jan. 27-28 at the Howard Johnson Motor Lodge, Las Cruces.

During the program, Bob Jones, an Otero County rancher, will cover a rancher's perspective of brush control. Roy Stovall, from BLM's East Roswell District, will speak on brush control in the district.

Researchers from Arizona, Texas and New Mexico will report on their latest research in brush and weed control on rangelands, says Jesse Gerard, extension farm and ranch demonstration specialist at New Mexico State University.

An informal session will be held Wed., Jan. 28. It will cover various aspects of noxious plant control. This session will be chaired by Dr. Jim Bob Grumbles of Dow Chemical.

The New Mexico Agricultural Chemical Conference, Jan. 28-29, will convene at the Holiday Inn de Las Cruces following the Range Brush Conference.



SADDLE UP—Malcolm Baldrige, secretary of commerce designate, will be a featured participant of the PRCA convention and National Western Rodeo this month.

Colorado Hereford Assn.

The annual meeting of the Colorado Hereford Assn. was held recently with Bob Miller, Elizabeth, being elected to serve as president for the organization for the coming year. He succeeds Bart Strang, Meeker, at the helm of the 100-member organization.

Serving as vice president will be Gene Spangler, Collbran, with Lawrence Bartel, Mancos, serving as secretary-treasurer.

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Bankers, ranchers, brace for rocky ag finance of '80s

(Continued from page 1) cow/calf area, but the bank also serves sheep people, and he says they, too, face problems.

"These are the kind of operations that can't be put on a holding pattern," Candland commented, as he looked at the fluctuating interest rates. His bank is making six-month loans

because of the ups and downs in rates. They're taking a hard look at new ventures and concentrating on taking care of longtime customers. He was one of the few rural bankers who didn't feel they had lost a large proportion of loan deposits. Most of the rural bankers cited loss of local deposits,

savings accounts, as a major problem. Eatherly also pointed out that other agriculture industries, such as custom combiners and crop sprayers who come in and out of the business, take a lot of money out of the community.

Eatherly feels a farmer can't pay more than 15% interest and stay in business

long. Some farmers and ranchers are looking to leasing to ease the capital crunch, but most bankers W.J. talked to do not see that as the "boom" industry some have predicted.

Ron Hays of the Ft. Morgan, Colo. Farmer's State Bank, says his bank has considered serving in an agent capacity for leasing equipment, but so far has only advised clients who want to lease. Center pivot irrigation systems have been the biggest item their customers have leased.

Hays wants to talk any lease agreement over with your banker, or lawyer, as it is difficult to understand all the ramifications of the many different kinds of leases.

"Some bankers say a rule of thumb on leasing is not to lease if you have a 30% down payment, but there's really no way to give a good ballpark figure for leasing equipment; it depends on the size of the purchase, terms of the lease, and the farmer's tax situation, to name just a few variables," according to the Colorado banker. Hays also says to look at the lease to see if it is the type that gives the

farmer the investment tax credit, and depreciation. All the bankers said they would be offering interest paying checking accounts, at the federal set rate of 5 1/2%, but all agree the cost will have to be made up in other areas, such as service charges.

The result is that the accounts—called NOW, for negotiable order of withdrawal—will primarily benefit depositors who maintain high balances and write few checks. Minimum balance requirements will run from \$500 to \$1,500, and the terms and methods of computing interest will vary so widely that individual comparisons will be necessary to figure the best arrangement.

Eatherly says that customers have to weigh the dollar value of a higher income security with the personal relationship and service they feel a bank can offer. In commenting on the coming banking revolution, the Oklahoma banker said that "in the past periods of higher rates, rural savers have subsidized rural borrowers. Now this is history. . . . Future rural borrowers will pay rates of interest

reflective of the national money market." He predicts there will be many mergers, and some small banks quitting in the next few years. Variable loan rates will become the rule, rather than the exception, he feels.

Many of the bankers feel that the high rates will be down, and are beginning to now, so that the peak may be past, but warn that rate will probably not recede to the lows they hit during the last interest rate cycle.

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January 21-22 • Denver, Colorado

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6 p.m. — Cocktail Hour, Brown Palace
7 p.m. — Pre-Sale Banquet & Dance

Thursday, Jan. 22
10 a.m. — South Devon Sale
Beef Palace
Auction Arena

Judge: James Linthicum Auctioneer: Ken Webster
Sale Headquarters: Brown Palace Hotel, 303/825-3111

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Colorado man receives prestigious 1981 Jerry Litton Memorial Award

(Continued from page 1) Beef Foundation carcass cut-out contest held prior to the 1981 National Western Stock Show. The first carcass evaluation contest held in the country, it was instrumental in providing the cattle industry with the first retail yield chart showing percentage yield of each cut.



CECIL HELLBUSCH

Hellbusch is a member of the National Western Stock Show Assn. board of directors, and has served on the National Western Beef contest committee since its beginning 17 years ago. He is also a charter member of the National Cattlemen's Assn., and during his career has

Block confirmation close to last stage

(Continued from page 1) given Americans the best food buys "in the world." "I want to ensure that agriculture gets the recognition it deserves," he added.

After hearing the endorsements for Block from groups as diverse as the National Grange and the American Agriculture Movement, chairman of the Senate Agriculture Committee, Sen. Jesse Helms, R-N.C., told Block, "You've made an impressive appearance, I congratulate you on your forthright answers."

Despite the cordial reception it gave Block, the committee declined to approve his confirmation to the full Senate, pending receipt of his financial statement and a favorable report from the Office of Government Ethics. Helms scheduled a Jan. 19 hearing for a final committee vote on Block's nomination.

Block estimated his current debt at three to five million dollars on his 8000-acre farm. He said that he and his father are members in an operating partnership that controls a portion of the farm and "rents" other portions from themselves, as individual owners.

A person reveals his character by nothing so clearly as the joke he

worked closely with the NCA Marketing Committee.

The Colorado native was also one of the organizers of the Mountain/Plains Meat Club. He continues as chairman of this informal club made up of individuals from all segments of the meat industry.

Hellbusch was honored with one of the first "Top Choice" awards given by the Colorado Cattle Feeders Assn. The CSU Alumni Assn. gave him its "Outstanding Alumni" Award in 1974.

A reception honoring Hellbusch will begin at 6 p.m. and dinner will begin at 7:30 p.m. Tickets are \$15.

Carter to renew embargo

(Continued from page 1)

Shipments of agricultural commodities were restricted because of foreign policy and national security reasons, while exports of some technical goods were halted from foreign policy reasons only.

As the White House lawyers have interpreted the act, an embargo imposed for foreign policy reasons must be re-justified and renewed annually. An embargo imposed for national security reasons remains in effect until a presidential order abolishes it.

Thus, the grains embargo technically need not be reviewed, since its was

imposed for foreign policy and national security reasons. But, as USDA General Counsel Daniel Marcus pointed out, the administration has followed all of the foreign policy procedures with respect to the grains embargo, including submitting a report to Congress on the reasons for imposing it.

President Jimmy Carter has delegated his authority to renew all U.S. export restrictions to Commerce Secretary Phillip Klutznick.

The ultimate fate of the grains embargo in 1981 will be up to the Reagan administration after President-elect Ronald Reagan is inaugurated Jan. 20.



RECORD BREAKER—Wyoming Hereford Ranch manager, Dave Forth, reports the recent acquisition of BLR CL1 Domino 6109 "Lerch" has brought the famous breeding bull to the historic Wyoming Ranch. Purchased by the Wyoming firm in the recent Brushcreek Dispersal in Kansas at a half-interest figure of \$261,000.00 the 60-inch, 2800 lb. sire set a new record price for a half interest paid by a single breeder in the breed's 100-year history. "Lerch" was first place winner in the spring yearling ROM Hereford competition at the 1979 National Western.

Red Angus plans enter final stages

Plans are being finalized for the National Red Angus Show to be held "on the hill" in Denver, during the National Western Stock Show. Judging date for the show will be Jan. 17 (Saturday), starting at 8:00 a.m. in the Stadium Arena.

President Roy Beatty Marshall, Okla., stated that

Red Angus show will be Dr. Bill Abel, Kansas State University, Manhattan, Kan. There will be a "no-hoel" get-together and dinner in the National Western Club, on Sat., Jan. 17, at 6:30 p.m.

A perfect example of minority rule is a baby in the

Market Roundup:

Analyst predictions: heavy future runs

DESPITE A SHARP RALLY in live cattle futures prices last week there appears to be a lid on where both futures and cash cattle prices will go. According to trade sources in a CNS report, there should be heavy runs, including some "tax cattle," and a persistent yield-grade 4 problem in the Corn Belt.

A relatively mild winter thus far has led to faster-than-expected weight gains and has blunted projections that the overfed backup would be erased by the New Year.

These problems in the cash cattle and dressed beef trades should limit advances, particularly in the nearby contracts. An additional blockage to upside movement in cattle futures prices will be a resistance line showing up on technicians' charts in the \$68 per cwt. for February. This technical resistance apparently held firm last week.

The mid-December collapse in the hog contracts lasted nine days instead of three days, and affected nearly all futures exchanges, including grains, financial instruments, precious metals and livestock.

IDAHIO MOSTLY CHOICE steers \$64-68.50. Mostly choice heifers \$61-64.50. California choice steers \$69-70; good and choice \$69-71; long-fed Holsteins \$66-67; good \$68-69.60. South San Joaquin Valley and Nevada mostly choice steers \$70; good and choice \$69-71. Nevada choice steers \$69.70; good and choice \$68-68.50. Choice heifers \$68.

Utah mostly choice steers \$67.50-68; good and choice \$66-68.50. Mostly choice heifers \$64.50-65; good and choice \$64.

Washington and Oregon choice steers \$69.50-70. Choice heifers \$66.50-68.

NEW MEXICO MOSTLY CHOICE steers \$67-67.50; good and choice \$66.50-66.75. Mostly choice heifers \$65-65.75; good and choice \$64.50-65; good f's \$6-68.50.

Texas and Oklahoma mostly choice steers \$67-67.50; good and choice \$65.25-67; good and choice Holsteins \$62.75-64. Mostly choice heifers \$65-66; good and choice \$63.75-65; good and choice heifers \$61-63.

Colorado choice steers \$66-67. Mostly choice heifers \$64.50-65.25. Western Kansas mostly choice steers \$66.50-67; good and choice \$65.50-65.75; good and choice Holsteins \$62-63. Choice heifers \$64.50-65. Wyoming, western Nebraska and southwestern South Dakota choice steers \$65. Choice heifers \$63-63.75. Montana choice steers \$66-67. Choice heifers \$64-64.50.

CALIFORNIA MD. FRAME No. 1 400 lb. steer \$81. Md. frame #1 heifers \$75-400 lbs. \$69-70; 750-800 lbs. \$61.50. Utah md. frame #1 500 lb. steers \$80. Md. frame #1 700 lbs. heifers \$61. Texas md. frame #1 300-400 lbs. \$78.50-82.25; 400-500 lbs. \$73-78.50; 500-600 lbs. \$72-75; 600-700 lbs. \$72.50-74.50; 700-800 lbs. \$70-73. Md. frame #1 heifers 300-400 lbs. \$64-69; 400-500 lbs. \$64-67; 500-600 lbs. \$62-66.75; 600-700 lbs. \$61-65.50; 700-800 lbs. \$63-68.75. Oklahoma md. frame #1 steers 380-380 lbs. \$81-81.50; 400-500 lbs. \$74.50-79. Md. frame #1 heifers 280-350 lbs. \$67.50-68.50; 400-500 lbs. \$64-67.75; 500-650 lbs. \$62.50-65.

KANSAS MD. FRAME #1 300-400 lbs. \$84-89; 400-600 lbs. \$79.25-88; 600-800 lbs. \$79.50-84.50; 600-700 lbs. \$71.50-75; 700-800 lbs. \$70-73.40. Md. frame #1 heifers 300-400 lbs. \$69.50-73; 400-500 lbs. \$68.75-71; 500-600 lbs. \$60.50-65.50; 600-700 lbs. \$62.50-65.30.

Wyoming, western Nebraska and southwestern South Dakota md. frame #1 steers 420 lbs. \$78.50. Md. frame #1 heifers 510 lbs. \$68.25; 600-670 lbs. \$64-65.50; 710-775 lbs. \$63.75-64.25. Colorado md. frame #1 steers 300-400 lbs. \$85.50-89; 460-525 lbs. \$73.75-81.25. Md. frame #1 heifers 300-400 lbs. \$70.50-73.50; 500-600 lbs. \$63-64.50.

Replacements md. frame #1 3-4 year old 650-900 lb. cows \$49-55; md. frame #1 850-1000 lb. \$440-520 per head. Wyoming, md. few lg. frame #1 middle aged and bred two-year-old heifers \$675-690; few md. and lg. frame #1 4-6 year old 800-1100 lb. cows with 100-300 lb. calves \$525-665 per pair.

MIDWEST SLAUGHTER LAMBS choice and prime 90-110 lb. woolled \$51-54; with some 90-115 lbs. \$55-57; 110-115 lbs. \$48-51; 115-135 lbs. \$40-49. Choice and prime 90-110 lbs. shorn with No. 1 and 2 pelts \$52-55 with 90-115 lbs. with No. 1 to 3 pelts \$56-58; 110-130 lbs. \$47-50.82. Midwest slaughter ewes utility and good \$15-22; cull \$10-15. Billings cull to good \$15-21.50. Midwest choice and fancy feeder lambs 40-65 lbs. \$65-71; 75-82 lbs. \$68-81.50; Billings choice and fancy 70-85 lbs. \$64-66.25; 85-105 lbs. \$62-65. Billings stock ewes few lots mostly good mixed ages \$45-50 per head; md. and gd. \$25-37.50 per head; few choice and fancy 95-110 lbs. whiteface ewe lambs \$55-65.50.

Sioux Falls, S.D., feeder pigs U.S. #1-2 20-30 lbs. \$24.50-28; 30-40 lbs. \$28-33; 40-50 lbs. \$37-38.50; 50-60 lbs. \$40.50-44.25; 70-90 lbs. \$50-52.75.

JOYCE PALMER

CENTRAL AUCTION ROUNDUP

(Reports as quoted by markets)

AMARILLO LIVESTOCK AUCTION
Amarillo, Texas, Jan. 5
5,310 head received: Feeder steers, md. frame 1 300-400 lbs. \$29-30; 400-500 lbs. \$27-29.50; 500-600 lbs. \$24-26.75; 600-700 lbs. \$22-25.75; 700-800 lbs. \$20-23.75; 800-900 lbs. \$18-21.75; 900-1000 lbs. \$16-19.75; 1000-1100 lbs. \$14-17.75; 1100-1200 lbs. \$12-15.75; 1200-1300 lbs. \$10-13.75; 1300-1400 lbs. \$8-11.75; 1400-1500 lbs. \$6-9.75; 1500-1600 lbs. \$4-7.75; 1600-1700 lbs. \$2-5.75; 1700-1800 lbs. \$1-4.75; 1800-1900 lbs. \$0-3.75; 1900-2000 lbs. \$0-2.75; 2000-2100 lbs. \$0-1.75; 2100-2200 lbs. \$0-0.75; 2200-2300 lbs. \$0-0.25; 2300-2400 lbs. \$0-0.15; 2400-2500 lbs. \$0-0.05; 2500-2600 lbs. \$0-0.01; 2600-2700 lbs. \$0-0.00; 2700-2800 lbs. \$0-0.00; 2800-2900 lbs. \$0-0.00; 2900-3000 lbs. \$0-0.00; 3000-3100 lbs. \$0-0.00; 3100-3200 lbs. \$0-0.00; 3200-3300 lbs. \$0-0.00; 3300-3400 lbs. \$0-0.00; 3400-3500 lbs. \$0-0.00; 3500-3600 lbs. \$0-0.00; 3600-3700 lbs. \$0-0.00; 3700-3800 lbs. \$0-0.00; 3800-3900 lbs. \$0-0.00; 3900-4000 lbs. \$0-0.00; 4000-4100 lbs. \$0-0.00; 4100-4200 lbs. \$0-0.00; 4200-4300 lbs. \$0-0.00; 4300-4400 lbs. \$0-0.00; 4400-4500 lbs. \$0-0.00; 4500-4600 lbs. \$0-0.00; 4600-4700 lbs. \$0-0.00; 4700-4800 lbs. \$0-0.00; 4800-4900 lbs. \$0-0.00; 4900-5000 lbs. \$0-0.00; 5000-5100 lbs. \$0-0.00; 5100-5200 lbs. \$0-0.00; 5200-5300 lbs. \$0-0.00; 5300-5400 lbs. \$0-0.00; 5400-5500 lbs. \$0-0.00; 5500-5600 lbs. \$0-0.00; 5600-5700 lbs. \$0-0.00; 5700-5800 lbs. \$0-0.00; 5800-5900 lbs. \$0-0.00; 5900-6000 lbs. \$0-0.00; 6000-6100 lbs. \$0-0.00; 6100-6200 lbs. \$0-0.00; 6200-6300 lbs. \$0-0.00; 6300-6400 lbs. \$0-0.00; 6400-6500 lbs. \$0-0.00; 6500-6600 lbs. \$0-0.00; 6600-6700 lbs. \$0-0.00; 6700-6800 lbs. \$0-0.00; 6800-6900 lbs. \$0-0.00; 6900-7000 lbs. \$0-0.00; 7000-7100 lbs. \$0-0.00; 7100-7200 lbs. \$0-0.00; 7200-7300 lbs. \$0-0.00; 7300-7400 lbs. \$0-0.00; 7400-7500 lbs. \$0-0.00; 7500-7600 lbs. \$0-0.00; 7600-7700 lbs. \$0-0.00; 7700-7800 lbs. \$0-0.00; 7800-7900 lbs. \$0-0.00; 7900-8000 lbs. \$0-0.00; 8000-8100 lbs. \$0-0.00; 8100-8200 lbs. \$0-0.00; 8200-8300 lbs. \$0-0.00; 8300-8400 lbs. \$0-0.00; 8400-8500 lbs. \$0-0.00; 8500-8600 lbs. \$0-0.00; 8600-8700 lbs. \$0-0.00; 8700-8800 lbs. \$0-0.00; 8800-8900 lbs. \$0-0.00; 8900-9000 lbs. \$0-0.00; 9000-9100 lbs. \$0-0.00; 9100-9200 lbs. \$0-0.00; 9200-9300 lbs. \$0-0.00; 9300-9400 lbs. \$0-0.00; 9400-9500 lbs. \$0-0.00; 9500-9600 lbs. \$0-0.00; 9600-9700 lbs. \$0-0.00; 9700-9800 lbs. \$0-0.00; 9800-9900 lbs. \$0-0.00; 9900-10000 lbs. \$0-0.00; 10000-10100 lbs. \$0-0.00; 10100-10200 lbs. \$0-0.00; 10200-10300 lbs. \$0-0.00; 10300-10400 lbs. \$0-0.00; 10400-10500 lbs. \$0-0.00; 10500-10600 lbs. \$0-0.00; 10600-10700 lbs. \$0-0.00; 10700-10800 lbs. \$0-0.00; 10800-10900 lbs. \$0-0.00; 10900-11000 lbs. \$0-0.00; 11000-11100 lbs. \$0-0.00; 11100-11200 lbs. \$0-0.00; 11200-11300 lbs. \$0-0.00; 11300-11400 lbs. \$0-0.00; 11400-11500 lbs. \$0-0.00; 11500-11600 lbs. \$0-0.00; 11600-11700 lbs. \$0-0.00; 11700-11800 lbs. \$0-0.00; 11800-11900 lbs. \$0-0.00; 11900-12000 lbs. \$0-0.00; 12000-12100 lbs. \$0-0.00; 12100-12200 lbs. \$0-0.00; 12200-12300 lbs. \$0-0.00; 12300-12400 lbs. \$0-0.00; 12400-12500 lbs. \$0-0.00; 12500-12600 lbs. \$0-0.00; 12600-12700 lbs. \$0-0.00; 12700-12800 lbs. \$0-0.00; 12800-12900 lbs. \$0-0.00; 12900-13000 lbs. \$0-0.00; 13000-13100 lbs. \$0-0.00; 13100-13200 lbs. \$0-0.00; 13200-13300 lbs. \$0-0.00; 13300-13400 lbs. \$0-0.00; 13400-13500 lbs. \$0-0.00; 13500-13600 lbs. \$0-0.00; 13600-13700 lbs. \$0-0.00; 13700-13800 lbs. \$0-0.00; 13800-13900 lbs. \$0-0.00; 13900-14000 lbs. \$0-0.00; 14000-14100 lbs. \$0-0.00; 14100-14200 lbs. \$0-0.00; 14200-14300 lbs. \$0-0.00; 14300-14400 lbs. \$0-0.00; 14400-14500 lbs. \$0-0.00; 14500-14600 lbs. \$0-0.00; 14600-14700 lbs. \$0-0.00; 14700-14800 lbs. \$0-0.00; 14800-14900 lbs. \$0-0.00; 14900-15000 lbs. \$0-0.00; 15000-15100 lbs. \$0-0.00; 15100-15200 lbs. \$0-0.00; 15200-15300 lbs. \$0-0.00; 15300-15400 lbs. \$0-0.00; 15400-15500 lbs. \$0-0.00; 15500-15600 lbs. \$0-0.00; 15600-15700 lbs. \$0-0.00; 15700-15800 lbs. \$0-0.00; 15800-15900 lbs. \$0-0.00; 15900-16000 lbs. \$0-0.00; 16000-16100 lbs. \$0-0.00; 16100-16200 lbs. \$0-0.00; 16200-16300 lbs. \$0-0.00; 16300-16400 lbs. \$0-0.00; 16400-16500 lbs. \$0-0.00; 16500-16600 lbs. \$0-0.00; 16600-16700 lbs. \$0-0.00; 16700-16800 lbs. \$0-0.00; 16800-16900 lbs. \$0-0.00; 16900-17000 lbs. \$0-0.00; 17000-17100 lbs. \$0-0.00; 17100-17200 lbs. \$0-0.00; 17200-17300 lbs. \$0-0.00; 17300-17400 lbs. \$0-0.00; 17400-17500 lbs. \$0-0.00; 17500-17600 lbs. \$0-0.00; 17600-17700 lbs. \$0-0.00; 17700-17800 lbs. \$0-0.00; 17800-17900 lbs. \$0-0.00; 17900-18000 lbs. \$0-0.00; 18000-18100 lbs. \$0-0.00; 18100-18200 lbs. \$0-0.00; 18200-18300 lbs. \$0-0.00; 18300-18400 lbs. \$0-0.00; 18400-18500 lbs. \$0-0.00; 18500-18600 lbs. \$0-0.00; 18600-18700 lbs. \$0-0.00; 18700-18800 lbs. \$0-0.00; 18800-18900 lbs. \$0-0.00; 18900-19000 lbs. \$0-0.00; 19000-19100 lbs. \$0-0.00; 19100-19200 lbs. \$0-0.00; 19200-19300 lbs. \$0-0.00; 19300-19400 lbs. \$0-0.00; 19400-19500 lbs. \$0-0.00; 19500-19600 lbs. \$0-0.00; 19600-19700 lbs. \$0-0.00; 19700-19800 lbs. \$0-0.00; 19800-19900 lbs. \$0-0.00; 19900-20000 lbs. \$0-0.00; 20000-20100 lbs. \$0-0.00; 20100-20200 lbs. \$0-0.00; 20200-20300 lbs. \$0-0.00; 20300-20400 lbs. \$0-0.00; 20400-20500 lbs. \$0-0.00; 20500-20600 lbs. \$0-0.00; 20600-20700 lbs. \$0-0.00; 20700-20800 lbs. \$0-0.00; 20800-20900 lbs. \$0-0.00; 20900-21000 lbs. \$0-0.00; 21000-21100 lbs. \$0-0.00; 21100-21200 lbs. \$0-0.00; 21200-21300 lbs. \$0-0.00; 21300-21400 lbs. \$0-0.00; 21400-21500 lbs. \$0-0.00; 21500-21600 lbs. \$0-0.00; 21600-21700 lbs. \$0-0.00; 21700-21800 lbs. \$0-

SOUTHWEST Farms and Ranches 13

37,000 Total acres. 24,000 wooded, 13,000 state lease, 1,000 BLM. 7 windmills, 2,000 sets of corrals, 31 houses, 17,000 Acres ranch, 340 cow unit, open rolling grass land, 7 miles and storage tank. Good improvements, good fences. Tremendous duplication schedule. Ellis Warden-Listing Agent.

Pino Springs Ranch, 23 miles north of Santa Rosa, 31,205 acres all wooded, 1/2 of the minerals go 10 windmills, 15 pipelines, 10 dirt tanks, 1 spring, 2 bedroom home, shop, corral, scab and loading chute. One of the top ranches in New Mexico \$100 per acre, currently running 1,450 yearlings. Pete Thompson-Listing Agent.

HH'S Farm & Ranch Specialists
HECKMAN, HAWORTH & STUTTS INC. REALTORS
 505/257-9095 Box 520 • Ruidoso, NM 88345
 Home: 505/257-9386

RANCHES or PASTURE WANTED 15

FOR LEASE 4, northern Nevada, 1,200 acres, 2,400 acres, 1,200 acres, 2,000 acres. We are willing to lease small or large parcels on long or short term basis. Areas include good water for alfalfa, alfalfa or grain production with irrigation through water pivots, wheel lines, flood irrigation or underground mainline for solid soil systems. One, 100,000 sq. ft. available warehouse available. Contact: Nevada First Corporation, Box N, Winnemucca, NV 89445. (702) 223-2586.

PASTURES AVAILABLE 17

PASTURE AVAILABLE for 7,000 acres, 201/615-1562 or 805/419-0152.

RANCHES or PASTURE WANTED 15

WANTED: 500 to 1,000 acres situated in Red Butte, California area or large land with available water suitable for irrigated pasture. Write Ad Dept. 110 c/o WLJ.

Classified ads aren't an expense—only an investment! Invest in classified advertising.

WANTED: to lease or lease with option to buy, a good, working, 200-400 cow ranch. Experienced, responsible ranch with excellent profit and personal references. A.L. Hall, 13155 North County Rd. 15, Wellington, CO 80540 303/568-7509.

75th JUBILEE

THE CLASSIFIED CORRAL WELCOMES STOCKMEN!
 To the 75th Jubilee
NATIONAL WESTERN STOCK SHOW

Remember to use the MINI AD DISPLAY

MAD rate:
 \$1.00 more per insertion to have your ad have some of the advantages of the classified regular display ad.

Write the word MAD on your ad or order copy, underline the words you prefer in boldface, count the words, figure the cost and add \$1.00 per insertion to take advantage of going MAD.

Western Livestock Journal's CLASSIFIED CORRAL Handy Order Form.

Mail this coupon to: The Classified Corral, 4th Floor, Livestock Exch. Building, Denver, CO 80216.

Print this ad to
 Name _____
 Address _____
 City _____ State _____ Zip _____

MAD Rate: \$1.00 more per insertion. Check here if MAD is desired.

Blind Box Advertisers—
 Add \$2.00 per insertion for forwarding of replies.

DISCOUNTS:
 10% if ad is scheduled for 3 or more times. 15% if ad is scheduled for 6 or more times.

Please include telephone area code and zip code if phone and address appear in ad.

Use for word ad copy only—Per insertion

Word	Cost	Word	Cost	Word	Cost	Word	Cost
1	\$1.00	11	\$11.00	21	\$21.00	31	\$31.00
2	\$2.00	12	\$12.00	22	\$22.00	32	\$32.00
3	\$3.00	13	\$13.00	23	\$23.00	33	\$33.00
4	\$4.00	14	\$14.00	24	\$24.00	34	\$34.00
5	\$5.00	15	\$15.00	25	\$25.00	35	\$35.00
6	\$6.00	16	\$16.00	26	\$26.00	36	\$36.00
7	\$7.00	17	\$17.00	27	\$27.00	37	\$37.00
8	\$8.00	18	\$18.00	28	\$28.00	38	\$38.00
9	\$9.00	19	\$19.00	29	\$29.00	39	\$39.00
10	\$10.00	20	\$20.00	30	\$30.00	40	\$40.00

CLIP AND MAIL

HAY, FEED, SEED 18

FOR SALE Alfalfa delivered anywhere, small load. Buy low and save. Call 303/281-2952.

1,000 TONS ALFALFA
 Good green color, high protein content. Call 916/398-4457.

OAT HAY and alfalfa hay for sale. Truck or trailer load lots. Ed Winchester. Phone 707/725-2114.

HOW TO STORE
 And care for stored grains. Send for details in Grain, Box 641, Gravel, TX 79040.

It's To Your Advantage To Go MAD

COTTONSEED MEAL protein block with Selenium and Phosphorus Stan Taylor, 503/947-4629

550 TONS good stock hay in Klamath County, Oregon. Can be fed on ranch or will feed. Call 503/794-5962

40 TONS OAT HAY, good color, high grain content. Reasonable price. 916/284-7228 or 714/495-4148.

BUSINESS INVESTMENTS 19

EMERYO TRANSFER partner wanted. Your ranch or embryo transfers. Call: Borman or Dr. Murray, 916/961-6985.

EXPERIENCED cattleman willing to manage and invest in mountain cow/calf ranches. Investment partner(s) needed. Call 509/422-6198, after 6 p.m.

Break The Ice

Buyer and Seller get acquainted through WLJ's Classified Ads.

NEVADA'S TOP...

Range for 50 cows or heifers. Grasses, white sage, some browse. Total management, \$8.00 per head per month single, \$11.00/pair. No phone. Star Rt., Box 52, Alamo, NV 89001. Give best time to call.

WANT TO WORK in a ranch or farm partnership. 31 years old, family, college degree, experienced in all phases of livestock production. Have capital to invest and some livestock. Write Ad Dept. 521 c/o WLJ.

NEVADA'S TOP...
 Range for 50 cows or heifers. Grasses, white sage, some browse. Total management, \$8.00 per head per month single, \$11.00/pair. No phone. Star Rt., Box 52, Alamo, NV 89001. Give best time to call.

Dig the Dirt

And Split the Beans. Tell the buyer all—by advertising in WLJ's Classified Corral.

CAT: D8-2V dozer, 4,850, road grader, 12,500, ripper, 3,750, 10 yard scraper, \$595, 209/439-2767.

LOG WINCHES D89A, 1,750, Hyster D7D, \$950, cargo, \$475, cat 25, \$850, 20 ft. disc, \$2,500, 209/439-2767.

CAT GRADER 1299E enclosed cab side shift, Scania direct start, \$22,500, 10 yard scraper, \$750, puli ripper \$3,750, 209/439-2767.

FORD 8600 dual, cab, air—only 1600 hours, 16' bush-hog, 7 ft. Howard ripper, 14' Hyster PTO sweeper, Woodlawn, H.D. Ford 3 pt. scraper, Make offer. Call: 916/824-4486, Eves.

CAT D7-M, \$1,500, AC HD10-50 with hydraulic dozer log winch, \$1,750, Dodge 1971 1 ton 4x4 flat bed, All-need work, 209/439-2767.

FARROWING STALLS: All steel, \$124.20. Includes feeder-waterer, top rail, ramp rail, Waighs 2044. Free literature. Starr National Livestock Exch., Inc., 162326, 309/776-3446.

FARROWING STALLS: Heavy duty, 110.08. Accessories available. Free literature. ALSO AVAILABLE: 88 page WHOLE-ALFALFA, RAIN, SUGAR, CAT, LOGS, \$2.00, BARNBURN, 80, 801, Dept. 719, Waco, TX 76781. Phone: 309/776-3550.

MID SOUTH TRACTOR PARTS COMPANY has over 20 years' used tractor parts. Also, wrecking over 400 combines with complete motors, headers, straw choppers, final drives. Good second hand tires and Cane tires and wheels. Write: 404 S. Box 514, Stillman, MO 65758. Call: 636/222-7070 or 7071. Free literature. Call: 614/471-3009. We ship anywhere.

LEGAL NOTICE
NOTICE OF PROPOSED ADOPTION OF REGULATIONS OF THE DEPARTMENT OF FOOD AND AGRICULTURE Pertaining to Special Cattle Movement Permit

Notice is hereby given that the Department of Food and Agriculture, pursuant to the authority vested by Sections 407 and 20171 of the Food and Agricultural Code, and to implement, interpret, and make specific Section 21059(d) of the Food and Agricultural Code, proposes to adopt regulations in Title 3 of the California Administrative Code as follows:

Adopt Section 900 to provide for a permit to allow cattle movement without brand inspection, limited to 40 miles from loading point for feeding purposes only, and require the permit information to be recorded by the permittee in the Cattle Movement Record subject to Department inspection.

A complete copy of the Statement of Reasons, and a complete copy of the proposed regulation may be obtained on request from the Bureau of Livestock Identification, Department of Food and Agriculture, 1220 N Street, Sacramento, California 95814.

The Director of Food and Agriculture has determined that the above regulation will have no cost to state, local, or federal government pursuant to Section 2231 of the Revenue and Taxation Code and Section 11424 of the Government Code.

Notice is also given that any person interested may present statements or arguments in writing relevant to the action proposed to the Bureau of Livestock Identification, Department of Food and Agriculture, 1220 N Street, Sacramento, California 95814, at or before 5 o'clock p.m. on February 16, 1981. The Department of Food and Agriculture, upon its own motion or at the instance of any interested person, may thereafter adopt the above proposals substantially as set forth without further notice.

The name and phone number of the agency officer to whom inquiries about this notice may be directed are:

O.W. Hooton, 916/445-8108
DEPARTMENT OF FOOD AND AGRICULTURE

DEPARTMENT OF FOOD AND AGRICULTURE

LIVESTOCK LOANS 19A

"LIVESTOCK LOANS"
 We specialize in livestock financing statewide. Stock, Feed, Equipment, Short and Intermediate loans. Call: California Livestock PCA, 916/483-2418, 3382 El Camino Ave., Sacramento, CA 95821.

MACHINERY AND SUPPLIES 20

SAWS: 2 man, 6 ft., \$36.30, 8 ft., \$43.90. Used double bit axes, \$2.50, 209/439-2767.

PUMPS: 4" trailer mount, 4 cyl. \$2,450, cat D8-4614, Hydro III dozer, \$31,500, 209/439-2767.

CAT: 950-814 loader, 1971, 4x4, articulating 3 yard, \$31,500, cat D8-46A dozer, \$19,950, 209/439-2767.

FORD: 4000 skid loader, \$4,500, MF skid loader, \$4,250, case skid loader scraper, \$4,550, 209/439-2767.

CASE BACKHOE: 580B \$12,500, 580H crawler backhoe \$18,500, fork lift 6,000 lb., \$6,950, 209/439-2767.

AIR COMPRESSORS: 150 CFM rotary, \$3,500, 125 CFM \$2,950, Track drill, \$2,750, wagon drill, \$1,600, 209/439-2767.

CAT: D8-30H hydraulic lift dozer direct drive, \$34,500, Hancock 292 peddle scraper, \$18,500, 209/439-2767.

LOG WINCHES D89A, 1,750, Hyster D7D, \$950, cargo, \$475, cat 25, \$850, 20 ft. disc, \$2,500, 209/439-2767.

CAT GRADER 1299E enclosed cab side shift, Scania direct start, \$22,500, 10 yard scraper, \$750, puli ripper \$3,750, 209/439-2767.

FORD 8600 dual, cab, air—only 1600 hours, 16' bush-hog, 7 ft. Howard ripper, 14' Hyster PTO sweeper, Woodlawn, H.D. Ford 3 pt. scraper, Make offer. Call: 916/824-4486, Eves.

CAT D7-M, \$1,500, AC HD10-50 with hydraulic dozer log winch, \$1,750, Dodge 1971 1 ton 4x4 flat bed, All-need work, 209/439-2767.

FARROWING STALLS: All steel, \$124.20. Includes feeder-waterer, top rail, ramp rail, Waighs 2044. Free literature. Starr National Livestock Exch., Inc., 162326, 309/776-3446.

FARROWING STALLS: Heavy duty, 110.08. Accessories available. Free literature. ALSO AVAILABLE: 88 page WHOLE-ALFALFA, RAIN, SUGAR, CAT, LOGS, \$2.00, BARNBURN, 80, 801, Dept. 719, Waco, TX 76781. Phone: 309/776-3550.

MID SOUTH TRACTOR PARTS COMPANY has over 20 years' used tractor parts. Also, wrecking over 400 combines with complete motors, headers, straw choppers, final drives. Good second hand tires and Cane tires and wheels. Write: 404 S. Box 514, Stillman, MO 65758. Call: 636/222-7070 or 7071. Free literature. Call: 614/471-3009. We ship anywhere.

CREOSOTE: \$2.50 gallon (56) jeep cans, \$15.99, bucket seats new, \$39.99, 209/439-2767.

POSTS: 6" heavy steel "T" with clips, \$2.50, barb wire, 4 prong domestic Davis, \$29.99, Key-locks, \$39.95, 209/439-2767.

RANCH FENCING: All types installed. Call or write: Robert Snow, Box 34, Granite Station, Bakersfield, CA 93301. Phone: 805/398-4663, after 6 p.m.

TREATED ROUND POSTS: 3-4x8, 4-5x8, 5-6x8, 6-8x8, 8-10x8, F.O.B. Fresno, California, 209/221-2113, 227-8216. Rawhide Lumber, Box 2113, Fresno, California.

TIES & CORRAL BOARD: Treated 6x6, 8x8, 7x9. Rough 5/4x8, 2x6, 2x8, 2x12. Quality Douglas and Fir. State wide delivery. Servicos, 209/222-2113, 227-8216. Rawhide Lumber, Box 2113, Fresno, California.

LIVESTOCK FENCING SYSTEMS: Low Cost • Easy to Install • Low Maintenance • A Contractor for Every Need! • Designed for years of service • Proven Product.

Positive Stock Control • Milking Machine • Nationalwide Sales & Service.

FOR INFORMATION WRITE:
LIVESTOCK PRODUCTS
 P.O. Box 274, 95975
 Rough & Ready, CA 95975
 PHONE: 916/273-8447

PIPE, IRRIGATION SUPPLIES:
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20 TON LOWBED: \$3,600; D8 cat, \$5,000; 3 yard scoop/pump, \$5,500; 176A Michigan, \$9,500; D.W. 10 cat, \$3,000; 4,000 gallon water truck, \$11,500; 2,500 gallon water truck, \$8,950, 209/439-2767.

ALUMINUM:
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SCHOOLS 24
AUCTIONEERING: Write: Robert School of Auctioneering, Inc., Box 158, Crystal, Idaho 83603. Free Catalog.

Replacement heifers critical to herd

"If a producer hopes to keep a high reproductive rate in his herd, his replacement heifers are critically important," says Ron Parker, extension cattle breeding specialist for New Mexico State University.

"Achieving maximum reproductive efficiency in a herd is not easy and proper management of replacement heifers is the first step in this direction," Parker says.

It's important that replacement heifers entering the herd get off on the right foot. Replacement heifers that calve late the first time will tend to do so every year. This happens because the gestation length is long, 280-285 days. First calf

heifers require more time after calving to rebreed than mature cows, the NMSU specialists say.

"The best way to compensate for this is to start breeding yearling replacement heifers 30 days earlier than the rest of the cow herd," says Parker. Heifers must reach puberty by 14 months to use this technique.

Parker notes that in many herds, a few heifers will begin to cycle at a very early age. Some may even need to be separated from bull calves and herd bulls to prevent conception at too early an age.

However, the specialist emphasizes that just as

Bull Test Results

CSU-SAN JUAN BASIN RESEARCH CENTER
 Hesperus, Colo.

28 Day Report

214 Coop bulls:
 Average daily gain 3.20 lbs.
 111 CSU bulls:
 Average daily gain 3.37 lbs.

The 32nd annual performance test is underway at the CSU San Juan Basin Research Center, Hesperus, Colo. The two tests have 111 bulls entered by Colorado State University and 214 entered by the Four Corners BOLA. After 28 days on test, the CSU bulls have an ADG of 3.37 and the Four Corners' bulls are gaining 3.20 lbs. per day.

High performing sire groups in the Four Corners test are: Hereford by RH Advance A8000, ADG 3.78, owned by Lawrence Indergard, Grand Junction, Colo.; Angus by number 39, ADG 3.78, One Bar Eleven Ranch, Saratoga, Wyo.; Red Angus by M 436 CWH 90, ADG 3.76, owned by C.W. Huntington, Hesperus, Colo.; Polled Hereford by Sakovik Vic FNI, ADG 2.63, owned by W.W. Ritchie, Buffalo, Wyo.; Limousin by Pick Bar Gendarme, ADG 3.00, owned by Pick Bar Craig, Durango, Colo.; Limousin by Gendarme, 4.48 ADG; Continental West Angus, Durango, Colo.; Angus, Shoshone Titan FD80, 4.28 ADG; Len Miller, Ephraim, Utah, Sakovik, Leader, 4.11 ADG;

Bulls went on test with less sickness than previous years as a result of the excellent fall

weather. Cattlemen interested in receiving reports on the performance test may do so by contacting Al Denham, Superintendent, San Juan Basin Research Center, 18893 State Highway 140, Hesperus, Colo. 81328.

SCHOOLS 24

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TRUCKS and AUTOS 25

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CHEVY: 1980 1 1/2 ton, stake bed, \$2,950, Dodge 1978 1 ton \$2,450, cab chassis, 209/439-2767.

INTERNATIONAL dump, 10 yard, 1969, \$4,500, 1968 flat bed, \$2,550 2 ton, 209/439-2767.

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UTILITY TOOL BOX pickups, 1989 Chevy, \$1,150, 1989 International, \$1,050, Chevy, \$950, Box 435, 209/439-2767.

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20 TON LOWBED: \$3,600; D8 cat, \$5,000; 3 yard scoop/pump, \$5,500; 176A Michigan, \$9,500; D.W. 10 cat, \$3,000; 4,000 gallon water truck, \$11,500; 2,500 gallon water truck, \$8,950, 209/439-2767.

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CHEVY: 1970 2 ton cab-over cab chassis, \$3,450, GMC 1500 gallon water truck, \$1,750.

